

CITY OF AUSTIN
DAVENPORT RANCH FIRE/EMS STATION

DESIGN COMMISSION | SEPTEMBER 27, 2021



PREVIOUS COA FIRE/EMS STATIONS

DEL VALLE FIRE/EMS STATION

- 12,700 square feet
- Single story structure
- 4 pull-through apparatus bays
- Completed July 2020



TRAVIS COUNTRY FIRE/EMS STATION

- 15,000 square feet
- 2 story structure due to site size
- 4 back-in apparatus bays
- Completed July 2021



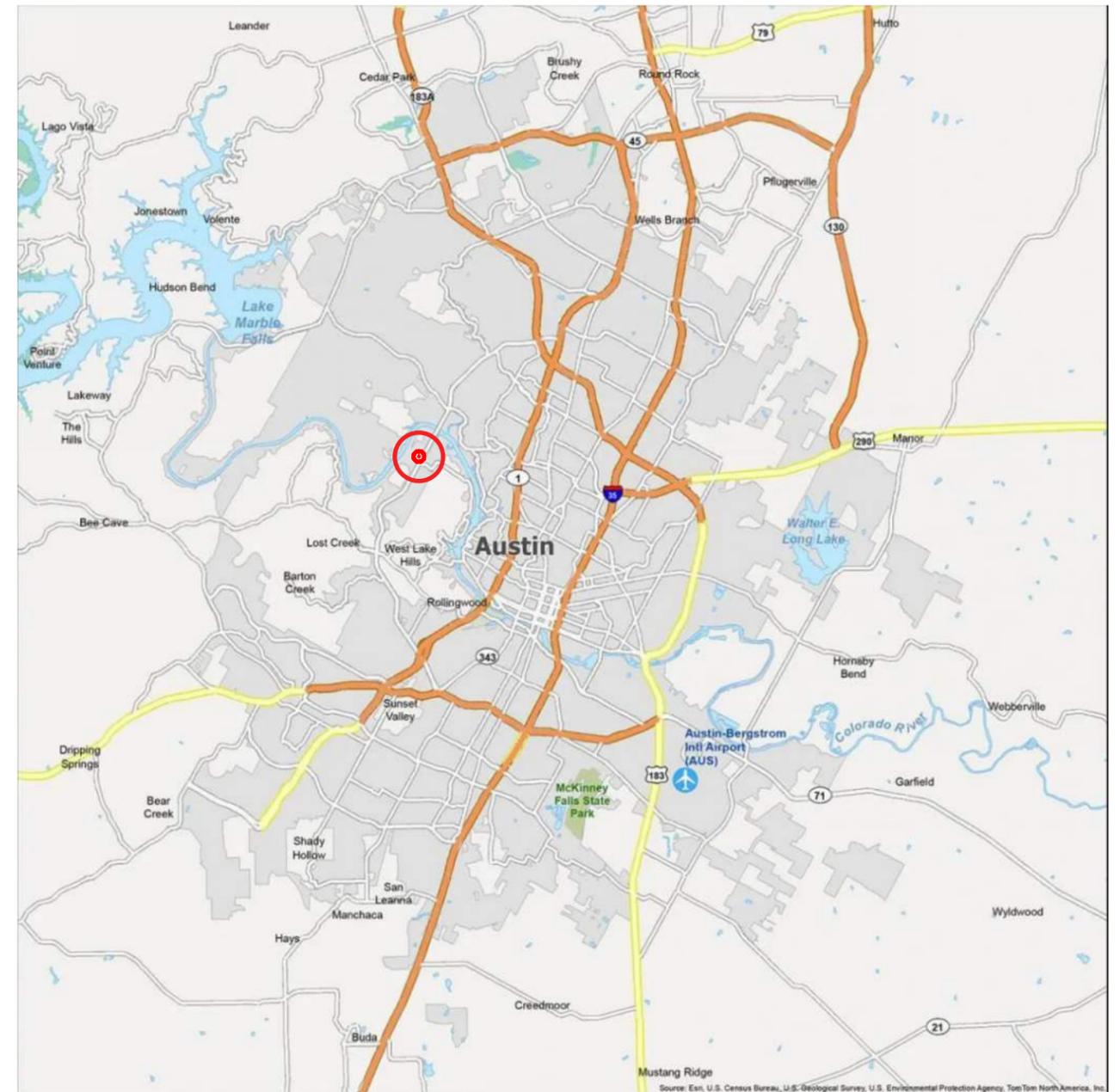
DAVENPORT RANCH FIRE/EMS STATION

GOAL:

PROVIDE EMERGENCY RESPONSE SERVICES TO DAVENPORT RANCH AREA

PROJECT ELEMENTS:

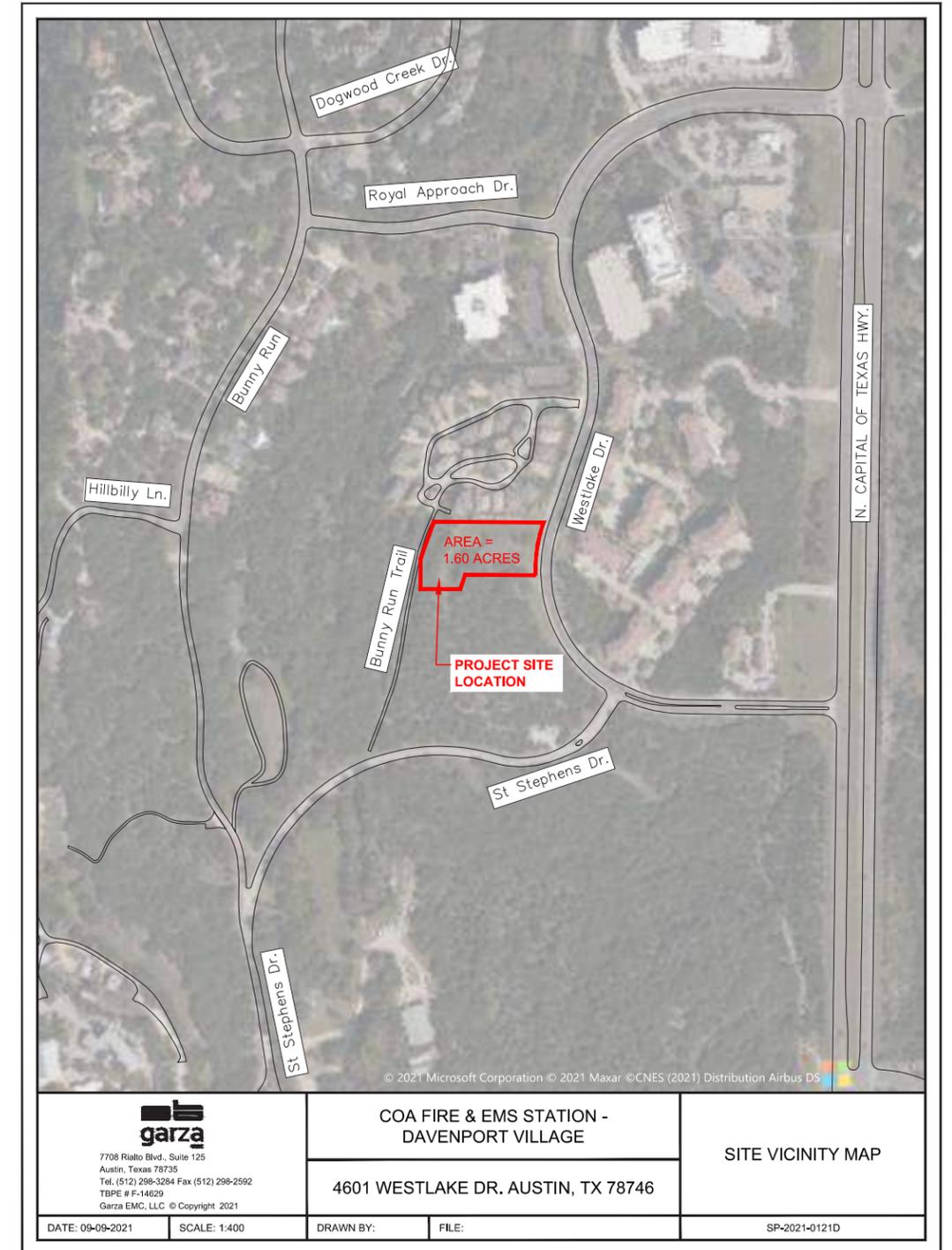
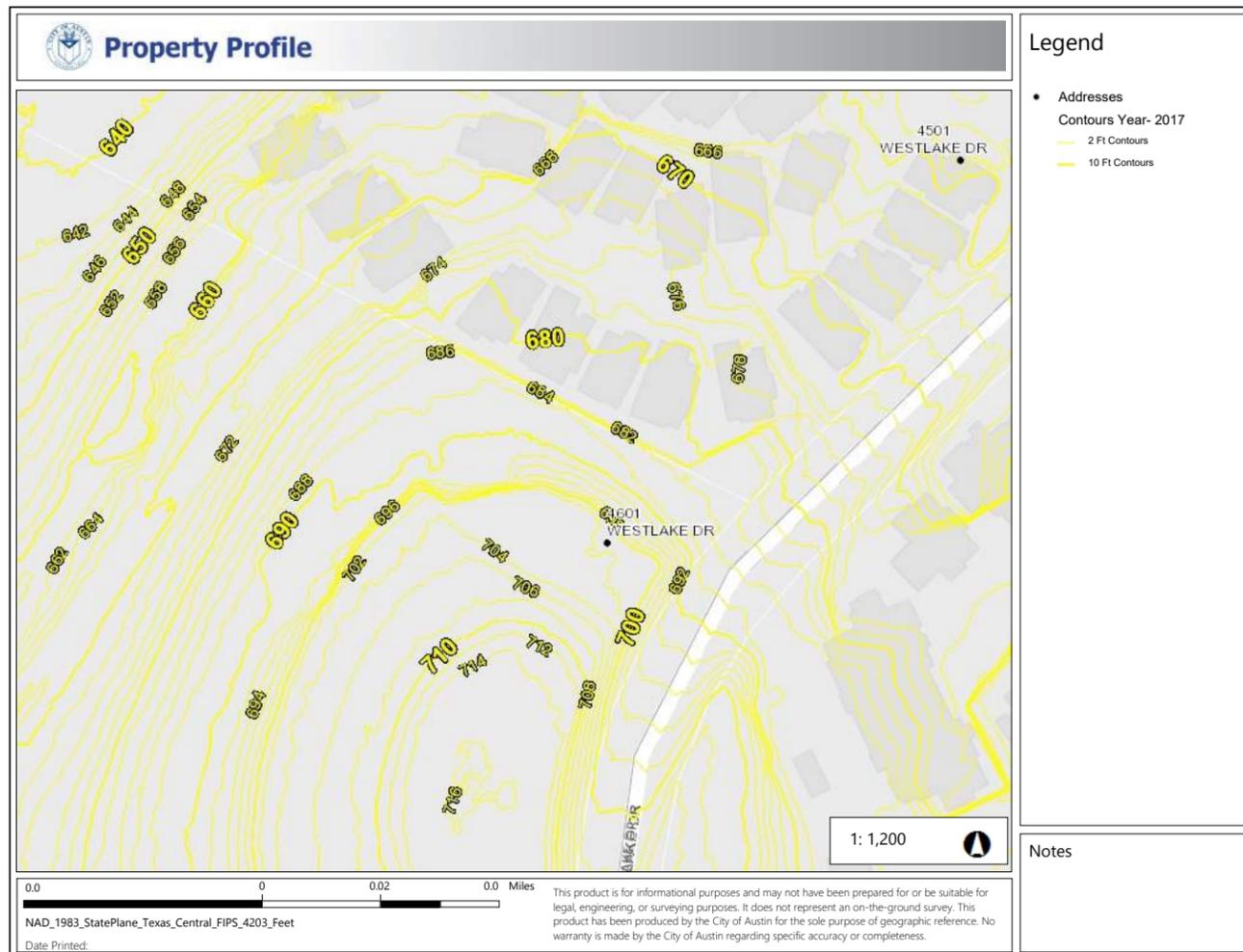
- 13,500 square feet; 4 apparatus bays
- 24 staff parking
- 2 visitor parking
- Compact design due to site limitation
- Water treatment pond
- Site retaining wall
- Staff exterior space (accessible from Day Room)
- Day Room, Kitchen, Gym, gear storage rooms, 14 sleep rooms



DAVENPORT RANCH FIRE/EMS STATION

SITE & CONTEXT:

- On St. Stephen's property
- No public transport within 1/4 mile
- Located in the ETJ
- Site has steep, rocky terrain





AERIAL SITE IMAGE





SITE BIRDSEYE VIEW





SITE PHOTOS: WESTLAKE DRIVE





SITE PHOTO: FUTURE DRIVE LOCATION





SITE PHOTO: LOOKING NORTH



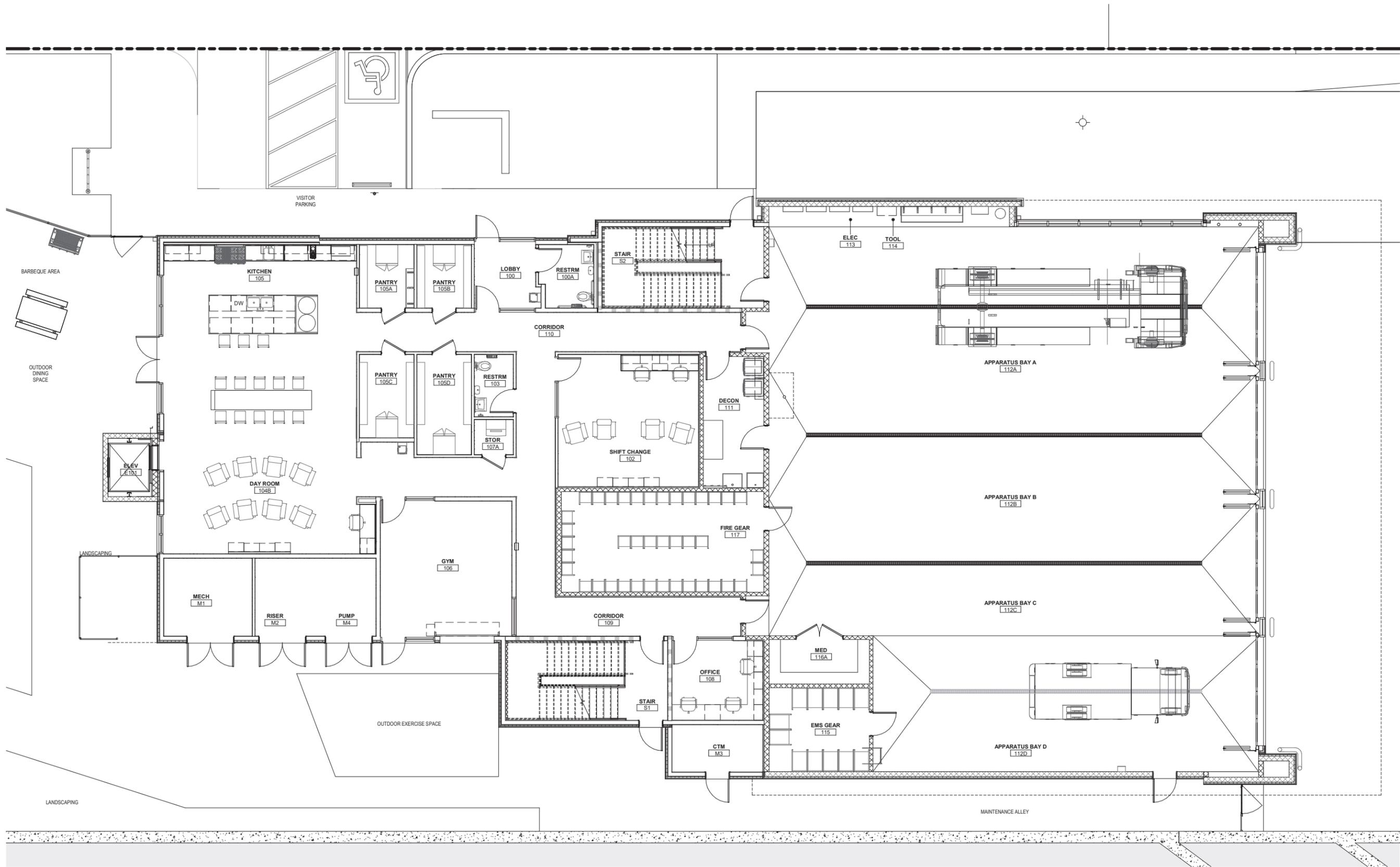
ARCHITECTURAL CONTEXT

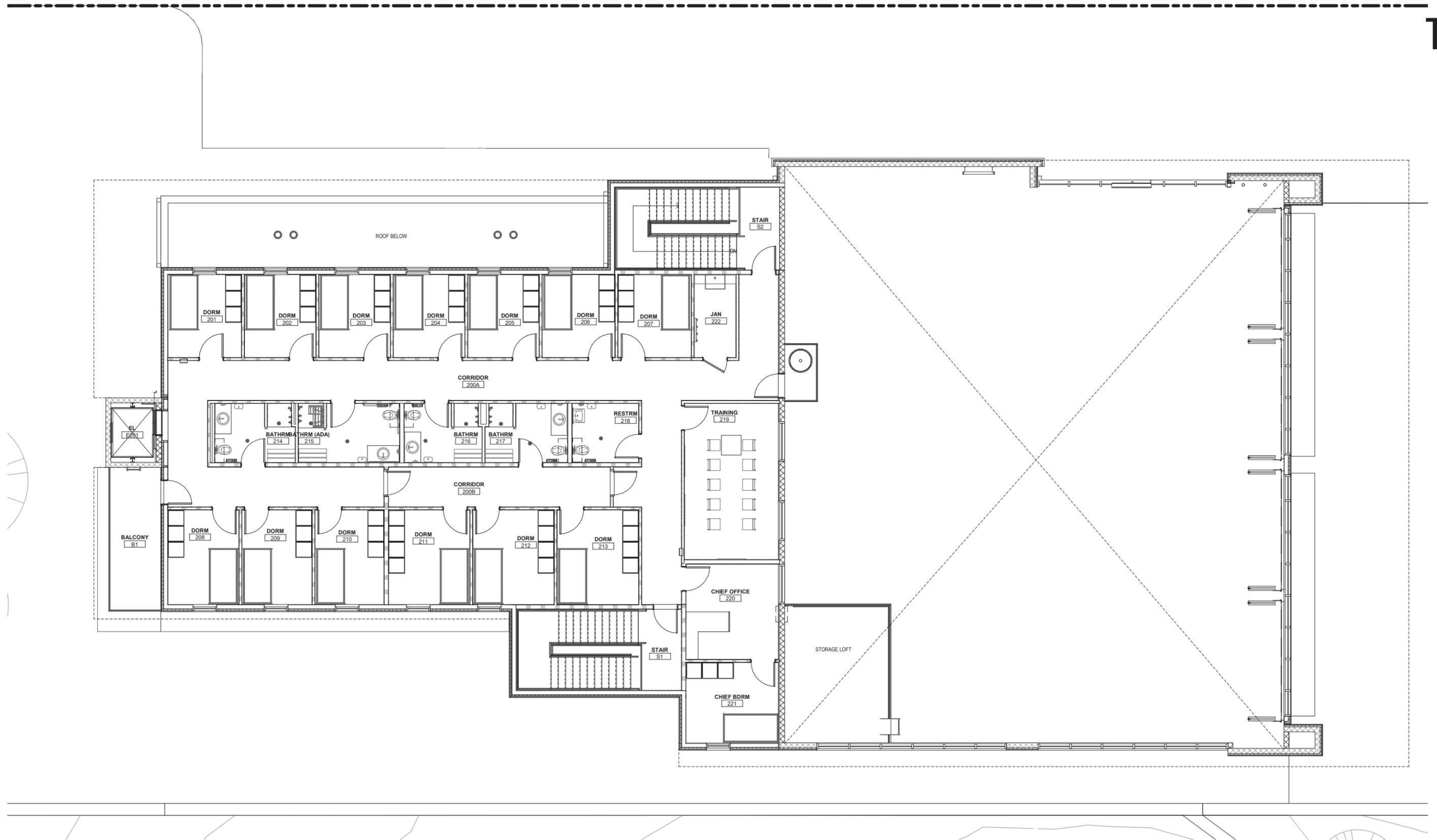
ST. STEPHEN'S EXISTING ARCHITECTURE:

- Natural Stone
- Metal low-slope roofing
- Large architectural overhangs
- Large glazing units









SECOND LEVEL FLOOR PLAN





AERIAL RENDERING



CITY OF AUSTIN
DAVENPORT RANCH FIRE/EMS STATION

DESIGN COMMISSION | SEPTEMBER 27, 2021





RENDERING: VIEW FROM DRIVEWAY



CITY OF AUSTIN
DAVENPORT RANCH FIRE/EMS STATION

DESIGN COMMISSION | SEPTEMBER 27, 2021





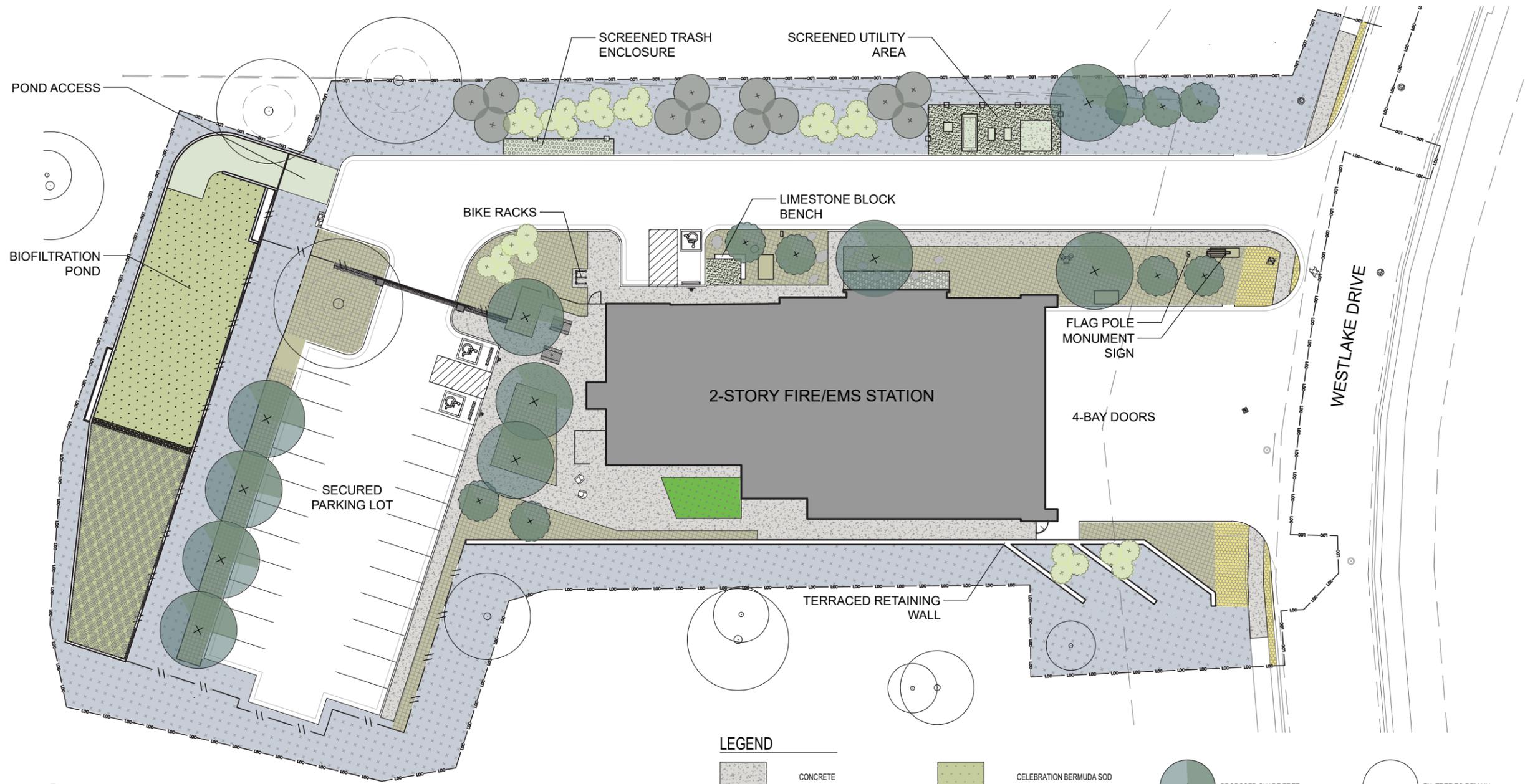
RENDERING: VIEW FROM PROPERTY LINE



CITY OF AUSTIN
DAVENPORT RANCH FIRE/EMS STATION

DESIGN COMMISSION | SEPTEMBER 27, 2021





1 OVERALL LANDSCAPE PLAN
SCALE: 1/16" = 1'

LEGEND

	CONCRETE		CELEBRATION BERMUDA SOD		PROPOSED SHADE TREE
	ARTIFICIAL TURF		NON-IRRIGATED XERIC ROW PLANTING		PROPOSED UNDERSTORY TREE
	1/4 - 1/2 WASHED GRANITE GRAVEL		NATIVE SEEDING		SHADE TREE SEEDLINGS
	1-2.5 CALICO DRAINAGE GRAVEL		SITE-SALVAGED BOULDERS		UNDERSTORY TREE SEEDLINGS
	1/4 MINUS CRUSHED LIMESTONE IN GEOGRID		PROPERTY LINE		EX. TREE TO REMAIN
	NATIVE & ADAPTED PLANTING		LIMITS OF CONSTRUCTION		
	BIOFILTRATION POND PLANTING		FIRELANE		
			1/2 RAW MILD STEEL EDGING		
			SECURITY FENCING		
			PRIVACY FENCING		



RENDERING: PLANTING MATERIALS



CITY OF AUSTIN
DAVENPORT RANCH FIRE/EMS STATION

DESIGN COMMISSION | SEPTEMBER 27, 2021





RENDERING: PLANTING MATERIALS



CITY OF AUSTIN
DAVENPORT RANCH FIRE/EMS STATION

DESIGN COMMISSION | SEPTEMBER 27, 2021



SUSTAINABILITY OVERVIEW

Certification Goal:

LEED 4.0 Silver

Location and Transportation: site location challenging for credits. 10 of 16 credits are NO.

Sustainable Sites: concrete pavement key for Heat Island reduction.

Water Efficiency: water use reduction & additional metering

Energy and Atmosphere: enhanced commissioning, photovoltaic panels, and increased energy performance through envelope design

Materials and Resources: building product disclosures and waste management

Indoor Environmental Quality: low-emitting materials & indoor air quality management

Innovation: IPM, Green Housekeeping, education outreach, Pilot

Regional Priority: Additional points for using photovoltaic panels



LEED v4 for BD+C: New Construction and Major Renovation
Project Checklist

Project Name: Davenport Ranch Fire EMS Station
Date: 08.02.2021

Y	?	N													
1			Credit	Integrative Process	1										
6	0	0	10	Location and Transportation	16	4	2	2	5	Materials and Resources	13				
			Credit	LEED for Neighborhood Development Location	16	Y				Prereq	Storage and Collection of Recyclables	Required			
1			Credit	Sensitive Land Protection	1	Y				Prereq	Construction and Demolition Waste Management Planning	Required			
1			1	Credit	High Priority Site - project does not qualify	2		1	2	2	Credit	Building Life-Cycle Impact Reduction	5		
2			3	Credit	Surrounding Density and Diverse Uses	5	1			1	Credit	Building Product Disclosure Optimization - Environmental Product Declarations	2		
			5	Credit	Access to Quality Transit	5	1			1	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2		
1			Credit	Bicycle Facilities	1	1				1	Credit	Building Product Disclosure and Optimization - Material Ingredients	2		
			1	Credit	Reduced Parking Footprint - zoning requirements? 40% reduction required	1	1	1			Credit	Construction and Demolition Waste Management	2		
1			Credit	Green Vehicles - v4.1 allow 6% infrastructure	1										
5	3	2	0	Sustainable Sites	10	6	2	3	5	Indoor Environmental Quality	16				
Y			Prereq	Construction Activity Pollution Prevention	Required	Y				Prereq	Minimum Indoor Air Quality Performance	Required			
1			Credit	Site Assessment	1	1	1			Credit	Enhanced Indoor Air Quality Strategies	2			
	2		Credit	Site Development - Protect or Restore Habitat	2	2	1			Credit	Low-Emitting Materials	3			
1			Credit	Open Space	1	1				Credit	Construction Indoor Air Quality Management Plan	1			
	1	2	Credit	Rainwater Management	3			1	1	Credit	Indoor Air Quality Assessment - flushout or testing	2			
2			Credit	Heat Island Reduction	2	1				Credit	Thermal Comfort - controllability	1			
1			Credit	Light Pollution Reduction - BUG	1	1		1		Credit	Interior Lighting - 90% individual occupant spaces - 3 levels	2			
									3	Credit	Daylight	3			
									1	Credit	Quality Views	1			
									1	Credit	Acoustic Performance	1			
4	0	0	7	Water Efficiency	11	5	1	0	0	Innovation	6				
Y			Prereq	Outdoor Water Use Reduction	Required	4	1			Credit	Innovation - LED Lighting, Innovation, Pilot, Educational, EP, Composting	5			
Y			Prereq	Indoor Water Use Reduction	Required	1				Credit	LEED Accredited Professional	1			
Y			Prereq	Building-Level Water Metering	Required										
1			1	Credit	Outdoor Water Use Reduction	2									
2			4	Credit	Indoor Water Use Reduction	6									
			2	Credit	Cooling Tower Water Use	2									
1			Credit	Water Metering	1										
23	0	1	9	Energy and Atmosphere	33	2	0	1	3	Regional Priority	4				
Y			Prereq	Fundamental Commissioning and Verification	Required	1			1	Credit	Regional Priority: Renewable Energy Production	1			
Y			Prereq	Minimum Energy Performance	Required			1	1	Credit	Regional Priority: : Outdoor Water Use Reduction	1			
Y			Prereq	Building-Level Energy Metering	Required	1				Credit	Regional Priority: : Rainwater Management	1			
Y			Prereq	Fundamental Refrigerant Management	Required					Credit	Regional Priority: : Optimize Energy Performance	1			
5			1	Credit	Enhanced Commissioning - before end of DD, measurement	6									
13			5	Credit	Optimize Energy Performance	18									
1			Credit	Advanced Energy Metering - systems >10% whole building + data	1										
			2	Credit	Demand Response	2									
3			Credit	Renewable Energy Production - programming requirement	3										
			1	Credit	Enhanced Refrigerant Management	1									
1		1	Credit	Green Power and Carbon Offsets	2										
56	8	9	39	TOTALS											Possible Points: 110
<p>Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110</p>															